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7	7,027,953	Method and system for diagnostics and prognostics of a mechanical system
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IET CNF	IET Conference Proceeding
IEEE STD	IEEE Standard

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Terms used: **time series** AND **likelihood** AND **diagnostic** AND **unsupervised learning** AND **threshold**

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1 Multiobjective Optimization in Bioinformatics and Computational Biology

Julia Handl, Douglas B. Kell, Joshua Knowles

April 2007 **IEEE/ACM Transactions on Computational Biology and Bioinformatics (TCBB)**, Volume 4 Issue 2

Publisher: IEEE Computer Society Press

Full text available: pdf(710.18 KB) Additional Information: full citation, abstract, index terms

This paper reviews the application of multiobjective optimization in the fields of bioinformatics and computational biology. A survey of existing work, organized by application area, forms the main body of the review, following an introduction to the key concepts in multiobjective optimization. An original contribution of the review is the identification of five distinct "contexts," giving rise to multiple objectives: These are used to explain the reasons behind the use of multiobjective o ...

Keywords: Global optimization, clustering, classification and association rules, interactive data exploration and discovery, experimental design, machine learning, bioinformatics (genome or protein) databases.

2 Research track papers: Adaptive event detection with time-varying poisson processes

Alexander Ihler, Jon Hutchins, Padhraic Smyth

August 2006 **Proceedings of the 12th ACM SIGKDD international conference on Knowledge discovery and data mining KDD '06**

Publisher: ACM Press

Full text available: pdf(1.22 MB) Additional Information: full citation, abstract, references, index terms

Time-series of count data are generated in many different contexts, such as web access logging, freeway traffic monitoring, and security logs associated with buildings. Since this data measures the aggregated behavior of individual human beings, it typically exhibits a periodicity in time on a number of scales (daily, weekly,etc.) that reflects the rhythms of the underlying human activity and makes the data appear non-homogeneous. At the same time, the data is often corrupted by a number of burs ...

Keywords: Markov modulated, event detection, poisson

3 Analyzing Gene Expression Time-Courses

Alexander Schliep, Ivan G. Costa, Christine Steinhoff, Alexander Schonhuth

July 2005 **IEEE/ACM Transactions on Computational Biology and Bioinformatics**

(TCBB), Volume 2 Issue 3
Publisher: IEEE Computer Society Press
Full text available: pdf(1.33 MB) Additional Information: full citation, abstract, references, index terms

Measuring gene expression over time can provide important insights into basic cellular processes. Identifying groups of genes with similar expression time-courses is a crucial first step in the analysis. As biologically relevant groups frequently overlap, due to genes having several distinct roles in those cellular processes, this is a difficult problem for classical clustering methods. We use a mixture model to circumvent this principal problem, with hidden Markov models (HMMs) as effective and ...

Keywords: Index Terms- Mixture modeling, hidden Markov models, partially supervised learning, gene expression, time-course analysis.

4 A survey on wavelet applications in data mining

Tao Li, Qi Li, Shenghuo Zhu, Mitsunori Ogihara
December 2002 **ACM SIGKDD Explorations Newsletter**, Volume 4 Issue 2
Publisher: ACM Press
Full text available: pdf(330.06 KB) Additional Information: full citation, abstract, references, citings

Recently there has been significant development in the use of wavelet methods in various data mining processes. However, there has been written no comprehensive survey available on the topic. The goal of this is paper to fill the void. First, the paper presents a high-level data-mining framework that reduces the overall process into smaller components. Then applications of wavelets for each component are reviewd. The paper concludes by discussing the impact of wavelets on data mining research an ...

5 Combining Sequence and Time Series Expression Data to Learn Transcriptional Modules

Anshul Kundaje, Manuel Middendorf, Feng Gao, Chris Wiggins, Christina Leslie
July 2005 **IEEE/ACM Transactions on Computational Biology and Bioinformatics (TCBB)**, Volume 2 Issue 3
Publisher: IEEE Computer Society Press
Full text available: pdf(581.69 KB) Additional Information: full citation, abstract, references, index terms

Our goal is to cluster genes into transcriptional modules¿sets of genes where similarity in expression is explained by common regulatory mechanisms at the transcriptional level. We want to learn modules from both time series gene expression data and genome-wide motif data that are now readily available for organisms such as S. cereviseae as a result of prior computational studies or experimental results. We present a generative probabilistic model for combining regulatory sequence and time serie ...

Keywords: Index Terms- Gene regulation, clustering, heterogeneous data.

6 Research track papers: Clustering time series from ARMA models with clipped data

A. J. Bagnall, G. J. Janacek
August 2004 **Proceedings of the tenth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '04**
Publisher: ACM Press
Full text available: pdf(305.69 KB) Additional Information: full citation, abstract, references, index terms

Clustering time series is a problem that has applications in a wide variety of fields, and has recently attracted a large amount of research. In this paper we focus on clustering data derived from Autoregressive Moving Average (ARMA) models using k-means and k-medoids algorithms with the Euclidean distance between estimated model parameters. We justify our choice of clustering technique and distance metric by reproducing results obtained in related research. Our research aim is to assess the aff ...

Keywords: ARMA, clustering, time series

7 Predictive call admission control for all-IP wireless and mobile networks

Kelvin L. Dias, Stênio F. L. Fernandes, Djamel F. H. Sadok
October 2003 **Proceedings of the 2003 IFIP/ACM Latin America conference on Towards a Latin American agenda for network research LANC '03**
Publisher: ACM Press
Full text available: pdf(264.80 KB) Additional Information: full citation, abstract, references, index terms

This paper proposes a novel call admission control (CAC) scheme for wireless and mobile networks. Our proposal avoids per-user reservation signaling overhead and takes into account the expected bandwidth to be used by calls handed off from neighboring cells based only on local information stored into the current cell where user is seeking admission. To this end, we propose the use of two time series-based models for predicting handoff load: the Trigg and Leach (TL), which is an adaptive expon ...

Keywords: all-IP wireless and mobile networks, call admission control, quality of service, scalability, time series analysis

8 Research track papers: Detecting anomalous records in categorical datasets

Kaustav Das, Jeff Schneider
August 2007 **Proceedings of the 13th ACM SIGKDD international conference on Knowledge discovery and data mining KDD '07**
Publisher: ACM Press
Full text available: pdf(834.19 KB) Additional Information: full citation, abstract, references, index terms

We consider the problem of detecting anomalies in high aritycategorical datasets. In most applications, anomalies are defined as datapoints that are "abnormal". Quite often we have access to data which consists mostly of normal records, a long with a small percentage of unlabelled anomalous records. We are interested in the problem of *unsupervised anomaly detection*, where we use the unlabelled data for training, and detect records that do not follow the definition of normality.

...

Keywords: anomaly detection, machine learning

9 What's Strange About Recent Events (WSARE): An Algorithm for the Early Detection of Disease Outbreaks

Weng-Keen Wong, Andrew Moore, Gregory Cooper, Michael Wagner
December 2005 **The Journal of Machine Learning Research**, Volume 6
Publisher: MIT Press
Full text available: pdf(341.72 KB) Additional Information: full citation, abstract

Traditional biosurveillance algorithms detect disease outbreaks by looking for peaks in a univariate time series of health-care data. Current health-care surveillance data, however, are no longer simply univariate data streams. Instead, a wealth of spatial, temporal, demographic and symptomatic information is available. We present an early disease outbreak detection algorithm called What's Strange About Recent Events (WSARE), which uses a multivariate approach to improve its timeliness of detect ...

10 A unified framework for model-based clustering

Shi Zhong, Joydeep Ghosh
December 2003 **The Journal of Machine Learning Research**, Volume 4
Publisher: MIT Press
Full text available: pdf(851.48 KB) Additional Information: full citation, abstract, citings, index terms

Model-based clustering techniques have been widely used and have shown promising

results in many applications involving complex data. This paper presents a unified framework for probabilistic model-based clustering based on a bipartite graph view of data and models that highlights the commonalities and differences among existing model-based clustering algorithms. In this view, clusters are represented as probabilistic models in a model space that is conceptually separate from the data space. For ...

11 A data-driven approach to quantifying natural human motion

Liu Ren, Alton Patrick, Alexei A. Efros, Jessica K. Hodgins, James M. Rehg
July 2005 **ACM Transactions on Graphics (TOG) , ACM SIGGRAPH 2005 Papers SIGGRAPH '05**, Volume 24 Issue 3
Publisher: ACM Press
Full text available: pdf(409.67 KB) mov(28:43 MIN) Additional Information: full citation, abstract, references, citings, index terms

In this paper, we investigate whether it is possible to develop a measure that quantifies the naturalness of human motion (as defined by a large database). Such a measure might prove useful in verifying that a motion editing operation had not destroyed the naturalness of a motion capture clip or that a synthetic motion transition was within the space of those seen in natural human motion. We explore the performance of mixture of Gaussians (MoG), hidden Markov models (HMM), and switching linear d ...

Keywords: human animation, machine learning, motion evaluation, natural motion

12 Industry/government track paper: An approach to spacecraft anomaly detection problem using kernel feature space

Ryohei Fujimaki, Takehisa Yairi, Kazuo Machida
August 2005 **Proceeding of the eleventh ACM SIGKDD international conference on Knowledge discovery in data mining KDD '05**
Publisher: ACM Press
Full text available: pdf(664.07 KB) Additional Information: full citation, abstract, references, index terms

Development of advanced anomaly detection and failure diagnosis technologies for spacecraft is a quite significant issue in the space industry, because the space environment is harsh, distant and uncertain. While several modern approaches based on qualitative reasoning, expert systems, and probabilistic reasoning have been developed recently for this purpose, any of them has a common difficulty in obtaining accurate and complete *a priori* knowledge on the space systems from human experts. ...

Keywords: anomaly detection, kernel feature space, principal component analysis, spacecraft, time series data, von Mises Fisher distribution

13 Learning methods to combine linguistic indicators: improving aspectual classification and revealing linguistic insights

Eric V. Siegel, Kathleen R. McKeown
December 2000 **Computational Linguistics**, Volume 26 Issue 4
Publisher: MIT Press
Full text available: pdf(1.96 MB) Additional Information: full citation, abstract, references, citings
Publisher Site

Aspectual classification maps verbs to a small set of primitive categories in order to reason about time. This classification is necessary for interpreting temporal modifiers and assessing temporal relationships, and is therefore a required component for many natural language applications.A verb's aspectual category can be predicted by co-occurrence frequencies between the verb and certain linguistic modifiers. These frequency measures, called linguistic indicators, are chosen by linguistic insi ...

14 Building Blocks for Variational Bayesian Learning of Latent Variable Models

Tapani Raiko, Harri Valpola, Markus Harva, Juha Karhunen

May 2007 **The Journal of Machine Learning Research**, Volume 8

Publisher: MIT Press

Full text available: pdf(487.10 KB) Additional Information: full citation, abstract

We introduce standardised building blocks designed to be used with variational Bayesian learning. The blocks include Gaussian variables, summation, multiplication, nonlinearity, and delay. A large variety of latent variable models can be constructed from these blocks, including nonlinear and variance models, which are lacking from most existing variational systems. The introduced blocks are designed to fit together and to yield efficient update rules. Practical implementation of various model ...

15 A multimodal learning interface for grounding spoken language in sensory perceptions

Chen Yu, Dana H. Ballard

July 2004 **ACM Transactions on Applied Perception (TAP)**, Volume 1 Issue 1

Publisher: ACM Press

Full text available: pdf(1.73 MB) Additional Information: full citation, abstract, references, citings, index terms

We present a multimodal interface that learns words from natural interactions with users. In light of studies of human language development, the learning system is trained in an unsupervised mode in which users perform everyday tasks while providing natural language descriptions of their behaviors. The system collects acoustic signals in concert with user-centric multisensory information from nonspeech modalities, such as user's perspective video, gaze positions, head directions, and hand moveme ...

Keywords: Multimodal learning, cognitive modeling, multimodal interaction

16 One-Class Novelty Detection for Seizure Analysis from Intracranial EEG

Andrew B. Gardner, Abba M. Krieger, George Vachtsevanos, Brian Litt

December 2006 **The Journal of Machine Learning Research**, Volume 7

Publisher: MIT Press

Full text available: pdf(264.01 KB) Additional Information: full citation, abstract

This paper describes an application of one-class support vector machine (SVM) novelty detection for detecting seizures in humans. Our technique maps intracranial electroencephalogram (EEG) time series into corresponding novelty sequences by classifying short-time, energy-based statistics computed from one-second windows of data. We train a classifier on epochs of interictal (normal) EEG. During ictal (seizure) epochs of EEG, seizure activity induces distributional changes in feature space tha ...

17 DMSEC session: MORPHEUS: motif oriented representations to purge hostile events from unlabeled sequences

Gaurav Tandon, Philip Chan, Debasis Mitra

October 2004 **Proceedings of the 2004 ACM workshop on Visualization and data mining for computer security VizSEC/DMSEC '04**

Publisher: ACM Press

Full text available: pdf(272.36 KB) Additional Information: full citation, abstract, references, index terms

Most of the prevalent anomaly detection systems use some training data to build models. These models are then utilized to capture any deviations resulting from possible intrusions. The efficacy of such systems is highly dependent upon a training data set free of attacks. "Clean" or labeled training data is hard to obtain. This paper addresses the very practical issue of refinement of unlabeled data to obtain a clean data set which can then train an online anomaly detection system.

Our ...

Keywords: anomaly detection, data cleaning, motifs

18 Information retrieval and extraction 2: Efficient topic-based unsupervised name disambiguation

Yang Song, Jian Huang, Isaac G. Councill, Jia Li, C. Lee Giles
June 2007 **Proceedings of the 2007 conference on Digital libraries JCDL '07**
Publisher: ACM Press
Full text available: pdf(734.48 KB) Additional Information: full citation, abstract, references, index terms

Name ambiguity is a special case of identity uncertainty where one person can be referenced by multiple name variations in different situations or even share the same name with other people. In this paper, we focus on the problem of disambiguating person names within web pages and scientific documents. We present an efficient and effective two-stage approach to disambiguate names. In the first stage, two novel topic-based models are proposed by extending two hierarchical Bayesian text models, ...

Keywords: bayesian models, hierarchical clustering methods, name disambiguation, probability analysis, unsupervised machine learning

19 Object tracking: A survey

Alper Yilmaz, Omar Javed, Mubarak Shah
December 2006 **ACM Computing Surveys (CSUR)**, Volume 38 Issue 4
Publisher: ACM Press
Full text available: pdf(2.60 MB) Additional Information: full citation, abstract, references, index terms

The goal of this article is to review the state-of-the-art tracking methods, classify them into different categories, and identify new trends. Object tracking, in general, is a challenging problem. Difficulties in tracking objects can arise due to abrupt object motion, changing appearance patterns of both the object and the scene, nonrigid object structures, object-to-object and object-to-scene occlusions, and camera motion. Tracking is usually performed in the context of higher-level applicatio ...

Keywords: Appearance models, contour evolution, feature selection, object detection, object representation, point tracking, shape tracking

20 Trajectory clustering with mixtures of regression models

Scott Gaffney, Padhraic Smyth
August 1999 **Proceedings of the fifth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '99**
Publisher: ACM Press
Full text available: pdf(1.31 MB) Additional Information: full citation, references, citings, index terms

Terms used: **time series** AND **likelihood** AND **diagnostic** AND **unsupervised learning** AND **threshold**

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Relevance scale

21 Mining anomalies using traffic feature distributions

Anukool Lakhina, Mark Crovella, Christophe Diot

August 2005 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2005 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '05**, Volume 35 Issue 4

Publisher: ACM Press

Full text available: pdf(323.63 KB) Additional Information: full citation, abstract, references, citings, index terms

The increasing practicality of large-scale flow capture makes it possible to conceive of traffic analysis methods that detect and identify a large and diverse set of anomalies. However the challenge of effectively analyzing this massive data source for anomaly diagnosis is as yet unmet. We argue that the distributions of packet features (IP addresses and ports) observed in flow traces reveals both the presence and the structure of a wide range of anomalies. Using entropy as a summarization tool, ...

Keywords: anomaly classification, anomaly detection, network-wide traffic analysis

22 The effects of lexical specialization on the growth curve of the vocabulary

R. Harald Baayen

December 1996 **Computational Linguistics**, Volume 22 Issue 4

Publisher: MIT Press

Full text available: pdf(1.67 MB) Additional Information: full citation, abstract, references, citings

Publisher Site

The number of different words expected on the basis of the urn model to appear in, for example, the first half of a text, is known to overestimate the observed number of different words. This paper examines the source of this overestimation bias. It is shown that this bias does not arise due to sentence-bound syntactic constraints, but that it is a direct consequence of topic cohesion in discourse. The nonrandom, clustered appearance of lexically specialized words, often the key words of the tex ...

23 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97**

Publisher: IBM Press

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

24 Multiple Peak Alignment in Sequential Data Analysis: A Scale-Space-Based Approach

Weichuan Yu, Xiaoye Li, Junfeng Liu, Baolin Wu, Kenneth R. Williams, Hongyu Zhao

July 2006 **IEEE/ACM Transactions on Computational Biology and Bioinformatics (TCBB)**, Volume 3 Issue 3

Publisher: IEEE Computer Society Press

Full text available: pdf(1.52 MB) Additional Information: full citation, abstract, references, index terms

In this paper, we address the multiple peak alignment problem in sequential data analysis with an approach based on the Gaussian scale-space theory. We assume that multiple sets of detected peaks are the observed samples of a set of common peaks. We also assume that the locations of the observed peaks follow unimodal distributions (e.g., normal distribution) with their means equal to the corresponding locations of the common peaks and variances reflecting the extension of their variations. Under ...

Keywords: Biomarker discovery, peak identification, multiple peak alignment, scale-space, prior information, energy minimization, parameter optimization.

25 Subgroup Discovery with CN2-SD

Nada Lavrač, Branko Kavšek, Peter Flach, Ljupčo Todorovski

December 2004 **The Journal of Machine Learning Research**, Volume 5

Publisher: MIT Press

Full text available: pdf(435.37 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper investigates how to adapt standard classification rule learning approaches to subgroup discovery. The goal of subgroup discovery is to find rules describing subsets of the population that are sufficiently large and statistically unusual. The paper presents a subgroup discovery algorithm, *CN2-SD*, developed by modifying parts of the CN2 classification rule learner: its covering algorithm, search heuristic, probabilistic classification of instances, and evaluation measures. Experi ...

26 Face recognition: A literature survey

W. Zhao, R. Chellappa, P. J. Phillips, A. Rosenfeld

December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4

Publisher: ACM Press

Full text available: pdf(4.28 MB) Additional Information: full citation, abstract, references, citings, index terms

As one of the most successful applications of image analysis and understanding, face recognition has recently received significant attention, especially during the past several years. At least two reasons account for this trend: the first is the wide range of commercial and law enforcement applications, and the second is the availability of feasible technologies after 30 years of research. Even though current machine recognition systems have reached a certain level of maturity, their success is ...

Keywords: Face recognition, person identification

27 AI and computational logic and image analysis (AI): Facial emotion recognition by adaptive processing of tree structures

Jia-Jun Wong, Siu-Yeung Cho

April 2006 **Proceedings of the 2006 ACM symposium on Applied computing SAC '06**
Publisher: ACM Press
Full text available: pdf(468.59 KB) Additional Information: full citation, abstract, references, index terms

We present an emotion recognition system based on a probabilistic approach to adaptive processing of Facial Emotion Tree Structures (FETS). FETS are made up of localized Gabor features related to the facial components according to the Facial Action Coding System. The proposed model is an extension of the probabilistic based recursive neural network model applying in face recognition by Cho and Wong [1]. The robustness of the model in an emotion recognition system is evaluated by testing with kno ...

Keywords: facial emotion tree structures, neural networks, probabilistic based neural networks, tree structures

28 DBMiner: a system for data mining in relational databases and data warehouses
Jiawei Han, Jenny Y. Chiang, Sonny Chee, Jianping Chen, Qing Chen, Shan Cheng, Wan Gong, Micheline Kamber, Krzysztof Koperski, Gang Liu, Yijun Lu, Nebojsa Stefanovic, Lara Winstone, Betty B. Xia, Osmar R. Zaiane, Shuhua Zhang, Hua Zhu
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97**
Publisher: IBM Press
Full text available: pdf(280.67 KB) Additional Information: full citation, abstract, references, citings, index terms

A data mining system, DBMiner, has been developed for interactive mining of multiple-level knowledge in large relational databases and data warehouses. The system implements a wide spectrum of data mining functions, including characterization, comparison, association, classification, prediction, and clustering. By incorporating several interesting data mining techniques, including OLAP and attribute-oriented induction, statistical analysis, progressive deepening for mining multiple-level knowled ...

29 An integrated model of drilling vessel operations
Susan E. Hoffman, Melba M. Crawford, James R. Wilson
December 1983 **Proceedings of the 15th conference on Winter simulation - Volume 1 WSC '83**
Publisher: IEEE Press
Full text available: pdf(802.06 KB) Additional Information: full citation, abstract, references, citings, index terms

A combined discrete-event/continuous/process-interaction simulation model has been developed to evaluate the effects of weather and supply-ship availability on off-shore drilling operations at a specified location and time of year with a specified drilling vessel. The continuous submodel includes: (a) autoregressive-moving average and transfer-function models to represent weather conditions; (b) a difference equation to monitor effective work time for the current operation on the drilling v ...

30 Mining web logs to debug distant connectivity problems
Emre Kiciman, David A. Maltz, Moises Goldszmidt, John C. Platt
September 2006 **Proceedings of the 2006 SIGCOMM workshop on Mining network data MineNet '06**
Publisher: ACM Press
Full text available: pdf(194.40 KB) Additional Information: full citation, abstract, references, index terms

Content providers base their business on their ability to receive and answer requests from clients distributed across the Internet. Since disruptions in the flow of these requests directly translate into lost revenue, there is tremendous incentive to diagnose why some requests fail and prod the responsible parties into corrective action. However, a content provider has only limited visibility into the state of the Internet outside its domain. Instead, it must mine failure diagnoses from availabl ...

31 Industrial/government track: Clinical and financial outcomes analysis with existing hospital patient records

R. Bharat Rao, Sathyakama Sandilya, Radu Stefan Niculescu, Colin Germond, Harsha Rao

August 2003 **Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '03**

Publisher: ACM Press

Full text available: pdf(188.40 KB) Additional Information: full citation, abstract, references, citings, index terms

Existing patient records are a valuable resource for automated outcomes analysis and knowledge discovery. However, key clinical data in these records is typically recorded in unstructured form as free text and images, and most structured clinical information is poorly organized. Time-consuming interpretation and analysis is required to convert these records into structured clinical data. Thus, only a tiny fraction of this resource is utilized. We present REMIND, a Bayesian Framework for Reliable ...

Keywords: Bayes Nets, HMMs, data mining, temporal reasoning

32 Weakly supervised named entity transliteration and discovery from multilingual comparable corpora

Alexandre Klementiev, Dan Roth

July 2006 **Proceedings of the 21st International Conference on Computational Linguistics and the 44th annual meeting of the ACL ACL '06**

Publisher: Association for Computational Linguistics

Full text available: pdf(188.24 KB) Additional Information: full citation, abstract, references

Named Entity recognition (NER) is an important part of many natural language processing tasks. Current approaches often employ machine learning techniques and require supervised data. However, many languages lack such resources. This paper presents an (almost) unsupervised learning algorithm for automatic discovery of Named Entities (NEs) in a resource free language, given a bilingual corpora in which it is weakly temporally aligned with a resource rich language. NEs have similar time distributi ...

33 Information processing in the context of medical care

Valerie Florance, Gary Marchionini

July 1995 **Proceedings of the 18th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '95**

Publisher: ACM Press

Full text available: pdf(608.92 KB) Additional Information: full citation, references, citings, index terms

34 Associative Clustering for Exploring Dependencies between Functional Genomics Data Sets

Samuel Kaski, Janne Nikkila, Janne Sinkkonen, Leo Lahti, Juha E. A. Knuuttila, Christophe Roos

July 2005 **IEEE/ACM Transactions on Computational Biology and Bioinformatics (TCBB)**, Volume 2 Issue 3

Publisher: IEEE Computer Society Press

Full text available: pdf(896.56 KB) Additional Information: full citation, abstract, references, index terms

High-throughput genomic measurements, interpreted as cooccurring data samples from multiple sources, open up a fresh problem for machine learning: What is in common in the different data sets, that is, what kind of statistical dependencies are there between the paired samples from the different sets? We introduce a clustering algorithm for exploring the dependencies. Samples within each data set are grouped such that the dependencies between groups of different sets capture as much of pairwise d ...

Keywords: Index Terms- Biology and genetics, clustering, contingency table analysis, machine learning, multivariate statistics.

35 Summarizing scientific articles: experiments with relevance and rhetorical status

Simone Teufel, Marc Moens
December 2002 **Computational Linguistics**, Volume 28 Issue 4
Publisher: MIT Press
Full text available: pdf(424.69 KB) Additional Information: full citation, abstract, references, citings, index terms

In this article we propose a strategy for the summarization of scientific articles that concentrates on the rhetorical status of statements in an article: Material for summaries is selected in such a way that summaries can highlight the new contribution of the source article and situate it with respect to earlier work.We provide a gold standard for summaries of this kind consisting of a substantial corpus of conference articles in computational linguistics annotated with human judgments of the r ...

36 Simulation metamodels

Russell R. Barton
December 1998 **Proceedings of the 30th conference on Winter simulation WSC '98**
Publisher: IEEE Computer Society Press
Full text available: pdf(79.38 KB) Additional Information: full citation, references, citings, index terms

37 Semisupervised Learning for Molecular Profiling

Cesare Furlanello, Maria Serafini, Stefano Merler, Giuseppe Jurman
April 2005 **IEEE/ACM Transactions on Computational Biology and Bioinformatics (TCBB)**, Volume 2 Issue 2
Publisher: IEEE Computer Society Press
Full text available: pdf(1.09 MB) Additional Information: full citation, abstract, references, index terms

Class prediction and feature selection are two learning tasks that are strictly paired in the search of molecular profiles from microarray data. Researchers have become aware how easy it is to incur a selection bias effect, and complex validation setups are required to avoid overly optimistic estimates of the predictive accuracy of the models and incorrect gene selections. This paper describes a semisupervised pattern discovery approach that uses the by-products of complete validation studies on ...

Keywords: Machine learning, data mining, classifier design and evaluation, feature evaluation and selection, pattern analysis, clustering, similarity measures, biology and genetics, bioinformatics databases.

38 Network measurement: Diagnosing network disruptions with network-wide analysis

Yiyi Huang, Nick Feamster, Anukool Lakhina, Jim (Jun) Xu
June 2007 **Proceedings of the 2007 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '07**
Publisher: ACM Press
Full text available: pdf(374.88 KB) Additional Information: full citation, abstract, references, index terms

To maintain high availability in the face of changing network conditions, network operators must quickly detect, identify, and react to events that cause network disruptions. One way to accomplish this goal is to monitor routing dynamics, by analyzing routing update streams collected from routers. Existing monitoring approaches typically treat streams of routing updates from different routers as independent signals, and report only the "loud" events (i.e., events that involve large volume of ...

Keywords: anomaly detection, network management, statistical inference

39 TextTiling: segmenting text into multi-paragraph subtopic passages

Marti A. Hearst

March 1997 **Computational Linguistics**, Volume 23 Issue 1

Publisher: MIT Press

Full text available: pdf(2.46 MB) Additional Information: full citation, abstract, references, citings

Publisher Site

TextTiling is a technique for subdividing texts into multi-paragraph units that represent passages, or subtopics. The discourse cues for identifying major subtopic shifts are patterns of lexical co-occurrence and distribution. The algorithm is fully implemented and is shown to produce segmentation that corresponds well to human judgments of the subtopic boundaries of 12 texts. Multi-paragraph subtopic segmentation should be useful for many text analysis tasks, including information retrieval and ...

40 Logic design

February 1973 **Proceedings of the 1st annual computer science conference on Program information abstracts CWC '73**

Publisher: ACM Press

Full text available: pdf(257.23 KB) Additional Information: full citation

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41 Event detection from time series data

Valery Guralnik, Jaideep Srivastava

August 1999 **Proceedings of the fifth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '99**

Publisher: ACM Press

Full text available: pdf(1.01 MB) Additional Information: full citation, references, citings, index terms

42 The KDD process for extracting useful knowledge from volumes of data

Usama Fayyad, Gregory Piatetsky-Shapiro, Padhraic Smyth

November 1996 **Communications of the ACM**, Volume 39 Issue 11

Publisher: ACM Press

Full text available: pdf(523.49 KB) Additional Information: full citation, references, citings, index terms

43 Data mining (DM): A model for mining outliers from complex data sets

Hongwei Qi, Jue Wang

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing SAC '04**

Publisher: ACM Press

Full text available: pdf(321.83 KB) Additional Information: full citation, abstract, references

To solve the outlier mining problems where outliers are highly intermixed with normal data, a general Variance-based Outlier Mining Model (VOMM) is presented, in which the information of data is decomposed into normal and abnormal components according to their variances. With minimal loss of normal information in the VOMM, outliers are viewed as the top k samples holding maximal abnormal information in a dataset. And then, the principal curve that is a smooth nonparametric curve passing through ...

Keywords: Outlier Mining, principal curve, stock market

44 Spatio-temporal data management: Trajectory clustering: a partition-and-group framework

Jae-Gil Lee, Jiawei Han, Kyu-Young Whang

June 2007 **Proceedings of the 2007 ACM SIGMOD international conference on Management of data SIGMOD '07**

Publisher: ACM Press

Full text available: pdf(1.03 MB) Additional Information: full citation, abstract, references, index terms

Existing trajectory clustering algorithms group similar trajectories as a whole, thus discovering common trajectories. Our key observation is that clustering trajectories as a whole could miss common *sub*-trajectories. Discovering common sub-trajectories is very useful in many applications, especially if we have regions of special interest for analysis. In this paper, we propose a new *partition-and-group* framework for clustering trajectories, which partitions a trajectory into a ...

Keywords: MDL principle, density-based clustering, partition-and-group framework, trajectory clustering

45 Bioinformatics—an introduction for computer scientists

Jacques Cohen
June 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 2
Publisher: ACM Press

Full text available: pdf(261.56 KB) Additional Information: full citation, abstract, references, citings, index terms

The article aims to introduce computer scientists to the new field of bioinformatics. This area has arisen from the needs of biologists to utilize and help interpret the vast amounts of data that are constantly being gathered in genomic research---and its more recent counterparts, proteomics and functional genomics. The ultimate goal of bioinformatics is to develop in silico models that will complement in vitro and in vivo biological experiments. The article provides a bird's eye view of the ...

Keywords: DNA, Molecular cell biology, RNA and protein structure, alignments, cell simulation and modeling, computer, dynamic programming, hidden-Markov-models, microarray, parsing biological sequences, phylogenetic trees

46 Data mining to detect abnormal behavior in aerospace data

José M. Peña, Fazel Famili, Sylvain Létourneau
August 2000 **Proceedings of the sixth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '00**
Publisher: ACM Press
Full text available: pdf(179.60 KB) Additional Information: full citation, references, index terms

Keywords: data partitioning, machine learning, trend monitoring

47 Modeling changing dependency structure in multivariate time series

Xiang Xuan, Kevin Murphy
June 2007 **Proceedings of the 24th international conference on Machine learning ICML '07**
Publisher: ACM Press
Full text available: pdf(331.40 KB) Additional Information: full citation, abstract, references

We show how to apply the efficient Bayesian changepoint detection techniques of Fearnhead in the multivariate setting. We model the joint density of vector-valued observations using undirected Gaussian graphical models, whose structure we estimate. We show how we can exactly compute the MAP segmentation, as well as how to draw perfect samples from the posterior over segmentations, simultaneously accounting for uncertainty about the number and location of changepoints, as well as uncertainty a ...

48 Feature Selection for Unsupervised Learning

Jennifer G. Dy, Carla E. Brodley
December 2004 **The Journal of Machine Learning Research**, Volume 5

Publisher: MIT Press

Full text available: pdf(725.21 KB) Additional Information: full citation, abstract, references, citings

In this paper, we identify two issues involved in developing an automated feature subset selection algorithm for unlabeled data: the need for finding the number of clusters in conjunction with feature selection, and the need for normalizing the bias of feature selection criteria with respect to dimension. We explore the feature selection problem and these issues through FSSEM (Feature Subset Selection using Expectation-Maximization (EM) clustering) and through two different performance criteria ...

49 Research papers: mining biological and medical data: Subsequence matching on structured time series data

Huanmei Wu, Betty Salzberg, Gregory C Sharp, Steve B Jiang, Hiroki Shirato, David Kaeli

June 2005 **Proceedings of the 2005 ACM SIGMOD international conference on Management of data SIGMOD '05**

Publisher: ACM Press

Full text available: pdf(930.08 KB) Additional Information: full citation, abstract, references

Subsequence matching in time series databases is a useful technique, with applications in pattern matching, prediction, and rule discovery. Internal structure within the time series data can be used to improve these tasks, and provide important insight into the problem domain. This paper introduces our research effort in using the internal structure of a time series directly in the matching process. This idea is applied to the problem domain of respiratory motion data in cancer radiation treatme ...

50 Unsupervised learning of the morphology of a natural language

John Goldsmith

June 2001 **Computational Linguistics**, Volume 27 Issue 2

Publisher: MIT Press

Full text available: pdf(3.19 MB) Additional Information: full citation, abstract, references, citings

Publisher Site

This study reports the results of using minimum description length (MDL) analysis to model unsupervised learning of the morphological segmentation of European languages, using corpora ranging in size from 5,000 words to 500,000 words. We develop a set of heuristics that rapidly develop a probabilistic morphological grammar, and use MDL as our primary tool to determine whether the modifications proposed by the heuristics will be adopted or not. The resulting grammar matches well the analysis that ...

51 Research track poster: LIPED: HMM-based life profiles for adaptive event detection

Chien Chin Chen, Meng Chang Chen, Ming-Syan Chen

August 2005 **Proceeding of the eleventh ACM SIGKDD international conference on Knowledge discovery in data mining KDD '05**

Publisher: ACM Press

Full text available: pdf(878.45 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper, the proposed LIPED (LIfe Profile based Event Detection) employs the concept of life profiles to predict the activeness of event for effective event detection. A group of events with similar activeness patterns shares a life profile, modeled by a hidden Markov model. Considering the burst-and-diverse property of events, LIPED identifies the activeness status of event. As a result, LIPED balances the clustering precision and recall to achieve better F1 scores than other well known a ...

Keywords: clustering, event detection, hidden markov models, life profiles

52 Data streams (DS): Quality-driven evaluation of trigger conditions on streaming time series

Like Gao, Min Wang, X. Sean Wang

March 2005 **Proceedings of the 2005 ACM symposium on Applied computing SAC '05**
Publisher: ACM Press
Full text available: pdf(151.13 KB) Additional Information: full citation, abstract, references

For many applications, it is important to evaluate trigger conditions on time series streams. In a resource constrained environment, users' needs should ultimately decide how the evaluation system balances the competing factors such as evaluation speed, result precision, and load shedding level. This paper presents a basic framework for evaluation algorithms that takes user-specified quality requirements into consideration. Three optimization algorithms, each under a different set of quality req ...

53 Think globally, fit locally: unsupervised learning of low dimensional manifolds
Lawrence K. Saul, Sam T. Roweis
December 2003 **The Journal of Machine Learning Research**, Volume 4
Publisher: MIT Press
Full text available: pdf(2.91 MB) Additional Information: full citation, abstract, references, citings, index terms

The problem of dimensionality reduction arises in many fields of information processing, including machine learning, data compression, scientific visualization, pattern recognition, and neural computation. Here we describe locally linear embedding (LLE), an unsupervised learning algorithm that computes low dimensional, neighborhood preserving embeddings of high dimensional data. The data, assumed to be sampled from an underlying manifold, are mapped into a single global coordinate system of lowe ...

54 What types of events provide the strongest evidence that the stock market is affected by company specific news?
Calum Robertson, Shlomo Geva, Rodney Wolff
November 2006 **Proceedings of the fifth Australasian conference on Data mining and analystics - Volume 61 AusDM '06**
Publisher: Australian Computer Society, Inc.
Full text available: pdf(508.13 KB) Additional Information: full citation, abstract, references

The efficient market hypothesis states that an efficient market immediately incorporates all available information into the price of the traded entity. It is well established that the stock market is not an efficient market as it consists of numerous traders with differing strategies and interpretations of information. However there is substantial evidence to suggest that the stock market does incorporate new information into prices. Unfortunately little research has focussed on the high freq ...

Keywords: market reaction, news, return, stock market, volatility

55 Essential Latent Knowledge for Protein-Protein Interactions: Analysis by an Unsupervised Learning Approach
Hiroshi Mamitsuka
April 2005 **IEEE/ACM Transactions on Computational Biology and Bioinformatics (TCBB)**, Volume 2 Issue 2
Publisher: IEEE Computer Society Press
Full text available: pdf(1.25 MB) Additional Information: full citation, abstract, references, index terms

Protein-protein interactions play a number of central roles in many cellular functions, including DNA replication, transcription and translation, signal transduction, and metabolic pathways. A recent increase in the number of protein-protein interactions has made predicting unknown protein-protein interactions important for the understanding of living cells. However, the protein-protein interactions experimentally obtained so far are often incomplete and contradictory and, consequently, existing ...

Keywords: Biology and genetics, machine learning, data mining, mining methods and algorithms.

56 Learning fixed-dimension linear thresholds from fragmented data

Paul W. Goldberg

July 1999 **Proceedings of the twelfth annual conference on Computational learning theory COLT '99**

Publisher: ACM Press

Full text available: pdf(1.48 MB) Additional Information: full citation, references, index terms

57 Currency exchange rate forecasting from news headlines

Desh Peramunetilleke, Raymond K. Wong

January 2002 **Australian Computer Science Communications , Proceedings of the 13th Australasian database conference - Volume 5 ADC '02**, Volume 24 Issue 2

Publisher: Australian Computer Society, Inc., IEEE Computer Society Press

Full text available: pdf(797.48 KB) Additional Information: full citation, abstract, references, index terms

We investigate how money market news headlines can be used to forecast intraday currency exchange rate movements. The innovation of the approach is that, unlike analysis based on quantifiable information, the forecasts are produced from text describing the current status of world financial markets, as well as political and general economic news. In contrast to numeric time series data textual data contains not only the effect (e.g., the dollar rises against the Deutschmark) but also the possible ...

Keywords: data mining, foreign exchange, prediction

58 MEDCAT: an APL program for medical diagnosis, consultation, and teaching

W. D. Hagamen, Martin Gardy, Gregory Bell, Edwin Rekosh, Steven Zatz

May 1985 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL: APL and the future APL '85**, Volume 15 Issue 4

Publisher: ACM Press

Full text available: pdf(794.80 KB) Additional Information: full citation, abstract, references, citings, index terms

This is a description of MEDCAT, a computer program which makes diagnoses, explains each step in its reasoning in response to questions, increases its knowledge and reasoning ability by conversing with expert physicians, and uses its logical and communicative skills to help and evaluate medical students in the proper approach to medical diagnosis. The mechanism for each of these features is discussed. MEDCAT is coded in APL and implemented on a 68000 based microcomputer.

59 Research track paper: Detection of emerging space-time clusters

Daniel B. Neill, Andrew W. Moore, Maheshkumar Sabhnani, Kenny Daniel

August 2005 **Proceeding of the eleventh ACM SIGKDD international conference on Knowledge discovery in data mining KDD '05**

Publisher: ACM Press

Full text available: pdf(621.66 KB) Additional Information: full citation, abstract, references, citings, index terms

We propose a new class of spatio-temporal cluster detection methods designed for the rapid detection of emerging space-time clusters. We focus on the motivating application of prospective disease surveillance: detecting space-time clusters of disease cases resulting from an emerging disease outbreak. Automatic, real-time detection of outbreaks can enable rapid epidemiological response, potentially reducing rates of morbidity and mortality. Building on the prior work on spatial and space-time sca ...

Keywords: biosurveillance, cluster detection, space-time scan statistics

60 A review of vessel extraction techniques and algorithms

Cemil Kirbas, Francis Quek
June 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 2
Publisher: ACM Press

Full text available: pdf(8.06 MB) Additional Information: full citation, abstract, references, citings, index terms

Vessel segmentation algorithms are the critical components of circulatory blood vessel analysis systems. We present a survey of vessel extraction techniques and algorithms. We put the various vessel extraction approaches and techniques in perspective by means of a classification of the existing research. While we have mainly targeted the extraction of blood vessels, neurosvascular structure in particular, we have also reviewed some of the segmentation methods for the tubular objects that show ...

Keywords: Magnetic resonance angiography, X-ray angiography, medical imaging, neurovascular, vessel extraction

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